

## UPPER CARRIAGE LOCK

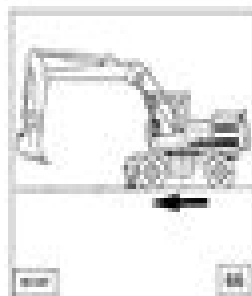
When travelling on roads, transporting, taking out of operation as well as during maintenance and repair work, and before leaving the excavator, the upper carriage must be locked to the under carriage.

Bring upper carriage over one of the locking bars in under carriage and lock with pin (picture 65).



**DANGER**

Do not operate steering gear when the upper carriage is locked to the under carriage with locking pin.



## USING THE ATTACHMENT

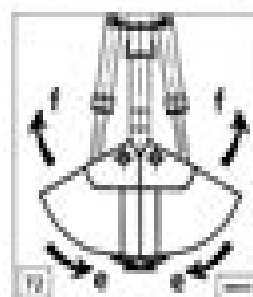
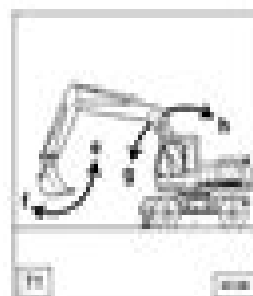
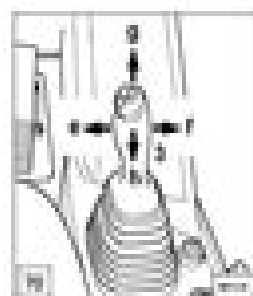
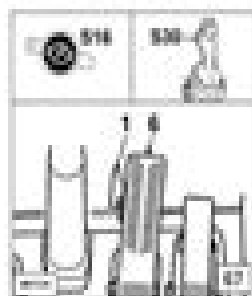
### WORKING POSITION

- Excavator work must always be carried out over the right side (picture 66).
- Lock the oscillating axle during all excavator work. Preferably use actuating switch S76 in position "1" (see also page 4-14 chapter "Oscillating axle lock").



**DANGER**

- For this task, brake pedal 4 must be actuated completely. Until pedal 1 locks, parking brake S76 must not be locked! (Hooter sounds as warning!)
- Push-to-switch Pos. 20 for forward/reverse travel direction must be in position 0.



## APPLICATION OF THE STICK CYLINDER (LEFT JOYSTICK) (Fig. 68)

Putting joystick 4 backward (a) means retract stick.

Putting joystick 4 forward (b) means extend stick.

## APPLICATION OF THE BOOM CYLINDER (RIGHT JOYSTICK) (Fig. 70)

Putting joystick 3 forward (a) lowers the attachment (Fig. 70).

Putting joystick 3 backward (b) raises the attachment (Fig. 70).

## APPLICATION OF THE BUCKET OR GRAPPLE CYLINDER (RIGHT JOYSTICK) (Fig. 71)

Application of joystick 3 to the left (a) tilts the bucket in or closes the grapple (Figs. 71 and 72).

Application of joystick 3 to the right (b) tilts the bucket out or opens the grapple (Figs. 71 and 72).



**DANGER**

NEVER POINT ARMS TO GUIDE THE GRAPPLE BY HAND!

## COMBINATION MOVEMENTS

A diagonal movement of the joystick combines the movements of the corresponding attachment functions. This makes it possible for more than one attachment movement to be controlled simultaneously.

# Liebherr R317 Litronic Hydraulic Excavator Operation Maintenance Manual

**Caterpillar Inc. Peoria, Ill..**



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